

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Addiese: COMMISSIONER FOR PATENTS P O Box 1450 Alexandra, Virginia 22313-1450 www.wepto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/566,184	01/27/2006	Katsutoshi Morinaka	Q76835	5724	
23373 10/15/2008 SUGHRUE MION, PLLC 2100 PENNSYLVANIA AVENUE, N.W.			EXAM	EXAMINER	
			GALE, KELLETTE		
SUITE 800 WASHINGTON, DC 20037		ART UNIT	PAPER NUMBER		
			1621		
			MAIL DATE	DELIVERY MODE	
			10/15/2008	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Application No. Applicant(s) 10/566,184 MORINAKA ET AL. Office Action Summary Examiner Art Unit KELLETTE GALE 1621 -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS. WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status 1) Responsive to communication(s) filed on 27 June 2008. 2a) This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 1-17 is/are pending in the application. 4a) Of the above claim(s) 8-17 is/are withdrawn from consideration. 5) Claim(s) _____ is/are allowed. 6) Claim(s) 1-7 is/are rejected. 7) Claim(s) _____ is/are objected to. 8) Claim(s) _____ are subject to restriction and/or election requirement. Application Papers 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are; a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abevance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.

1) Notice of References Cited (PTO-892)

Notice of Draftsperson's Patent Drawing Review (PTO-948)

Information Disclosure Statement(s) (FTO/S5/0E)
 Paper No(s)/Mail Date ________

Attachment(s)

Interview Summary (PTO-413)
 Paper No(s)/Mail Date. _____.

6) Other:

5) Notice of Informal Patent Application

Application/Control Number: 10/566,184 Page 2

Art Unit: 1621

DETAILED ACTION

Status of Claims

Claims 1-7 are under prosecution in this application.

Claims 8-17 are withdrawn from consideration

Response to amendments

Applicants amendments to the claims has been received and acknowledged by the Examiner.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior at are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

- 1. Determining the scope and contents of the prior art.
- 2. Ascertaining the differences between the prior art and the claims at issue.
- 3. Resolving the level of ordinary skill in the pertinent art.
- 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.

Claims 1-7 are rejected under 35 U.S.C. 103(a) as being unpatentable over Masami et al (JP 02-145555) in view of Adams et al (US 3,247,236).

Applicant claims a (meth) acryloyloxyalkyl isocyanate containing a dissolved acidic gas excluding hydrogen chloride. Application/Control Number: 10/566,184

Art Unit: 1621

Determination of the scope and content of the prior art

(MPEP §2141.01)

Adams et al teach a di-isocyanate composition that includes an acidic oxide selected from carbon dioxide and sulfur dioxide.

Masami et al teach a method for preventing isocyanatoalkyl (meth)acrylate from polymerizing using sulfur dioxide.

Ascertainment of the difference between the prior art and the claims

(MPEP §2141.02)

The difference between the prior art and the claims is that Adams et al does not teach the exact isocyanate as claimed. Also, the exact concentrations as claimed may not be found in the prior art.

Masami et al does teach the exact isocyanate but does not teach carbon dioxide as the stabilizing acid.

Finding of prima facie obviousness Rational and Motivation (MPEP §2142-2143)

Since Adams et al teaches that an isocyanate may be stabilized using carbon dioxide gas and Masami teach that an isocyanate may be stabilized using sulfur dioxide, it would be obvious for one having ordinary skill in the art to utilize carbon dioxide gas as a stabilizing agent in any isocyanate composition, namely the one taught by Masami et al. One having ordinary skill in the art at the time of the instant invention would be motivated to utilize carbon dioxide gas as stabilizing agent in any isocyanate composition as Adams et al has done just that with a di-isocyanate composition. Also,

Art Unit: 1621

although no specific concentrations are recited, merely modifying the process conditions such as temperature and concentration is not a patentable modification absent a showing of criticality. In re Aller, 220 F.2d 454, 456, 105 USPQ 233, 235 (CCPA 1955).

Applicant's Arguments

Applicant argues that the combined art has no motivation to combine because Adams et al teaches the stabilization of liquid isocyanates and Masami et al teaches the inhibition of polymerization of the isocyanate. Also, applicants have disclosed in their remarks that Adams et al "only specifically discloses a hydrolyzable chlorine content of at least 60 ppm" whereas Masami et al is silent as to whether or not chlorine is present.

Response to Arguments

Applicant's arguments filed June 27, 2008 have been fully considered but they are not persuasive. The Examiner contends that although Adams specifically teaches stabilization and Masami specifically teaches inhibition, that these are the same thing. Both arts teach that the isocyanate will no longer be reacted and this is enough evidence to combine both arts. Also, in order to prove that the limitation of, "no more than 30 ppm" is critical, applicants must show unexpected results because merely modifying the process conditions such as temperature and concentration is not a patentable modification absent a showing of criticality. In re Aller, 220 F.2d 454, 456, 105 USPQ 233, 235 (CCPA 1955).

Conclusion

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, THIS ACTION IS MADE FINAL. See MPEP

Application/Control Number: 10/566,184

Art Unit: 1621

§ 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to KELLETTE GALE whose telephone number is (571)272-8038. The examiner can normally be reached on M-F (6:30am-3:00pm).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, DANIEL SULLIVAN can be reached on 571-272-0779. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Application/Control Number: 10/566,184 Page 6

Art Unit: 1621

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Kellette Gale Patent Examiner Technology Center 1600

October 9, 2008

/SHAILENDRA - KUMAR/ Primary Examiner, Art Unit 1621